

**Fig. 1**

# 3000 Series DATA COLLECTION MODE

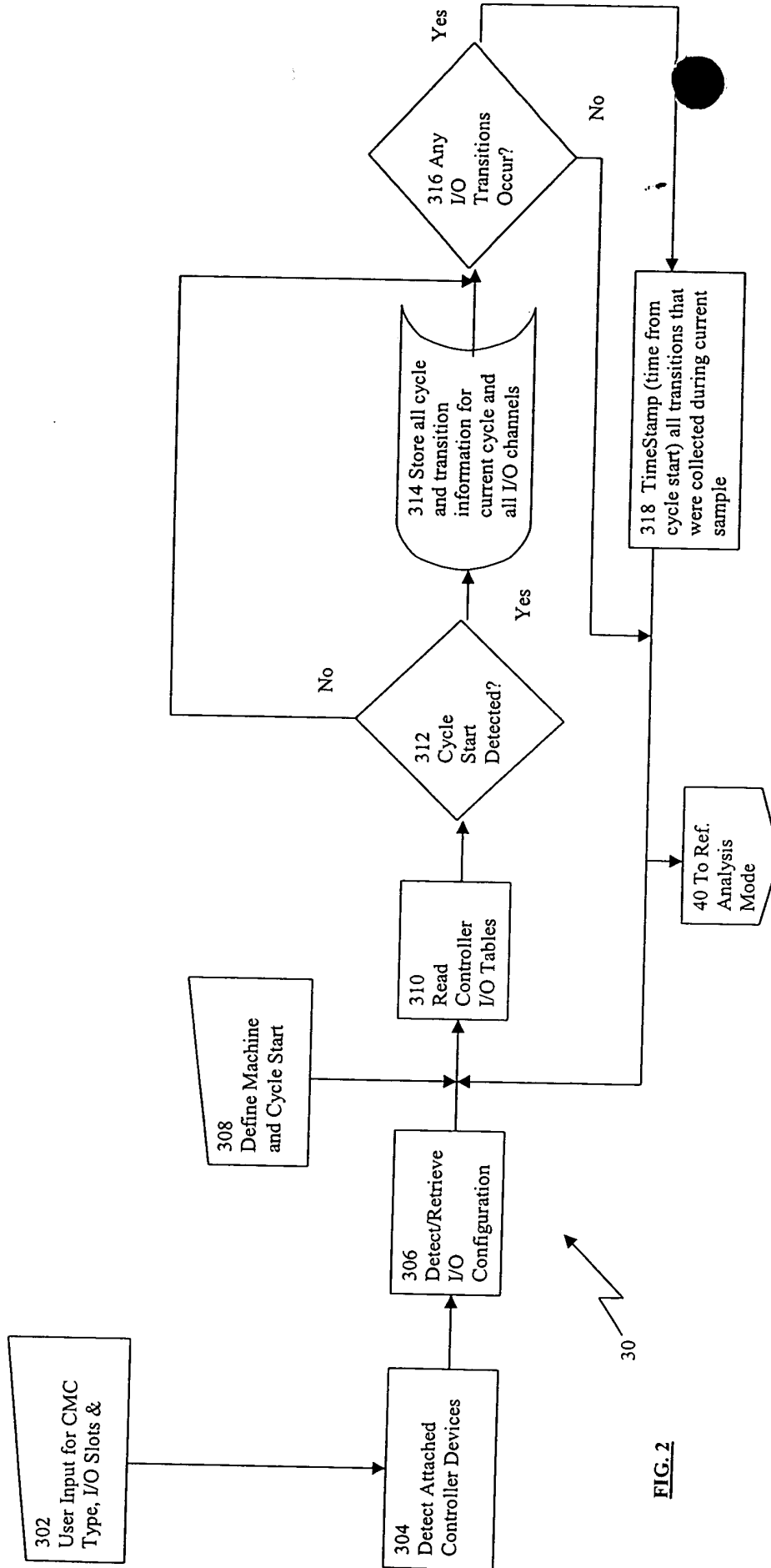


FIG. 2



DIAGNOSTIC RUN MODE

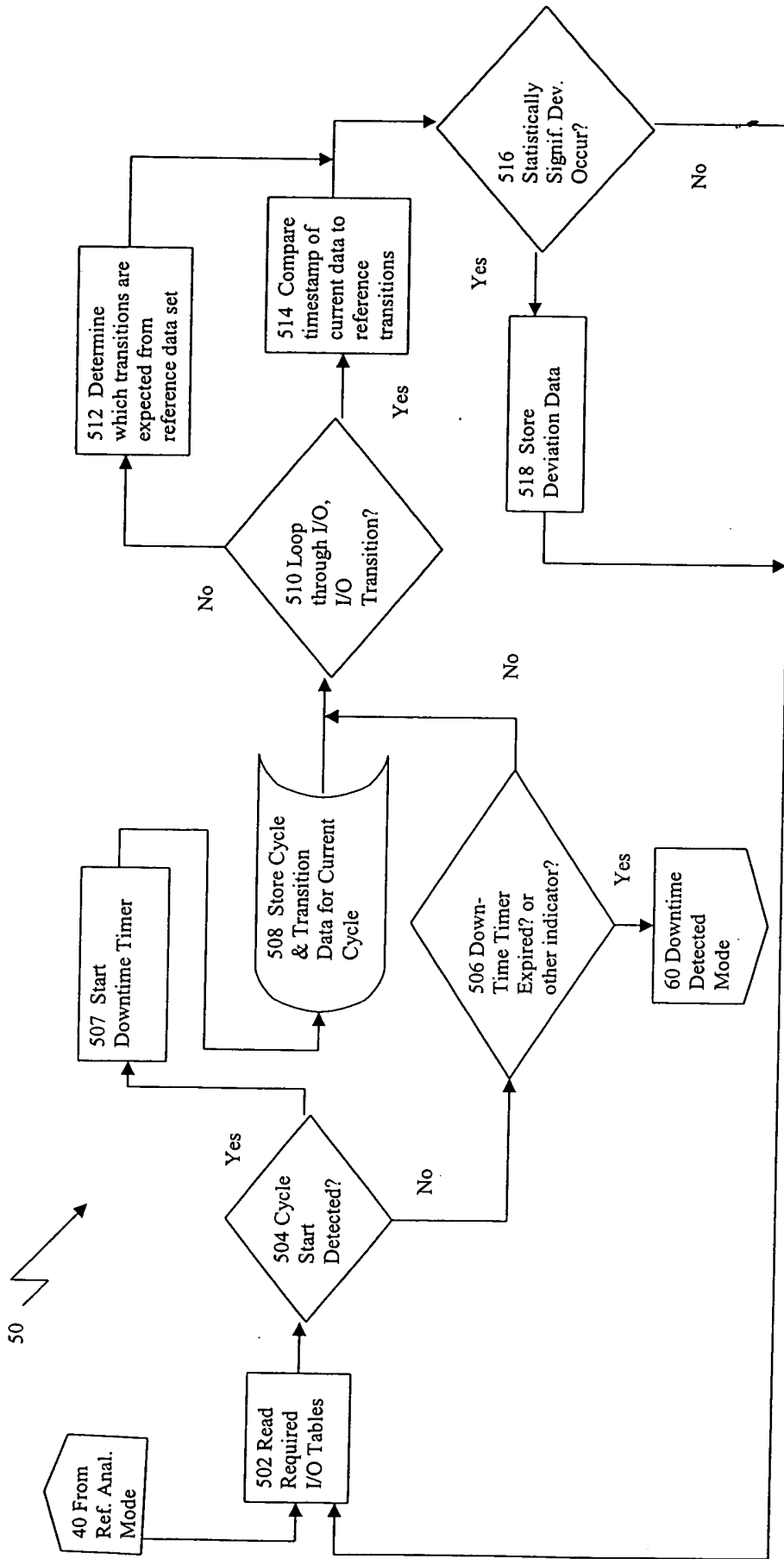
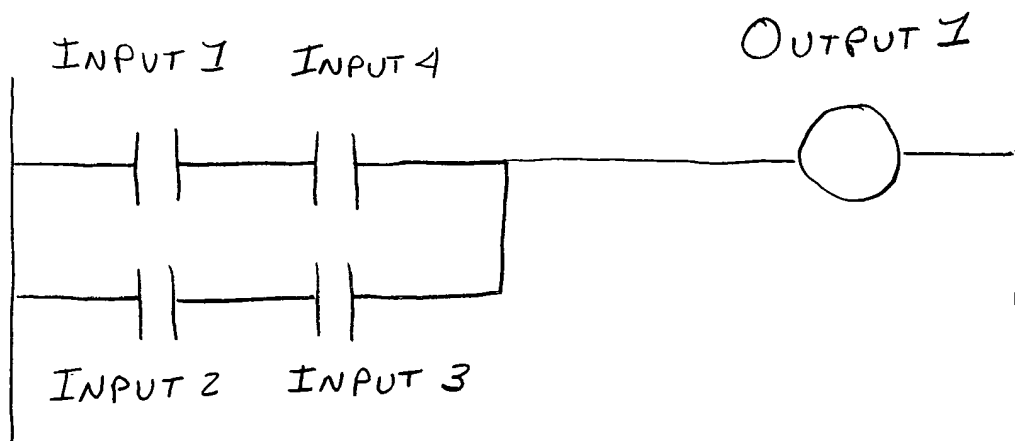
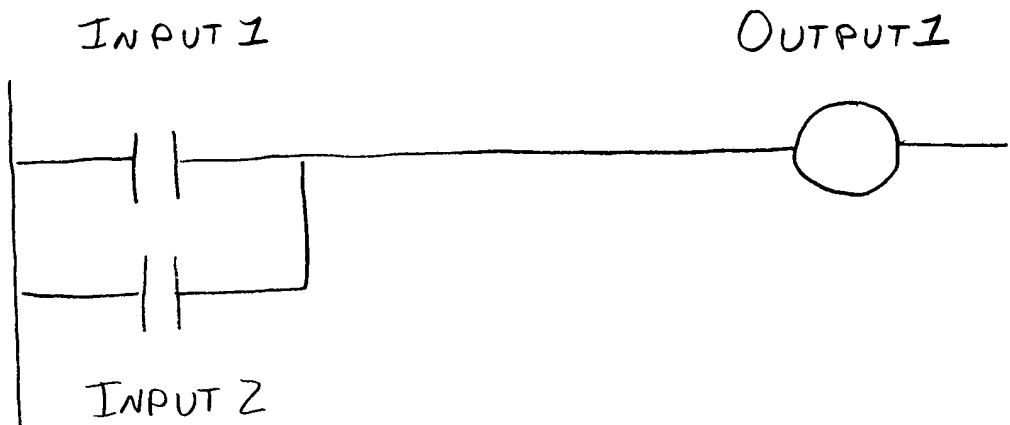
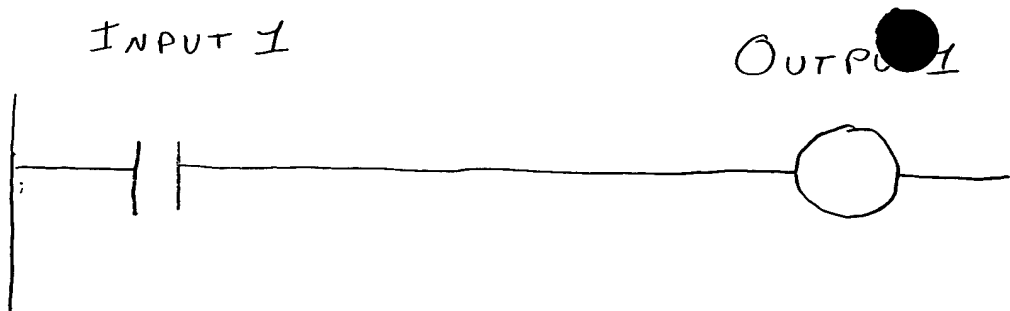
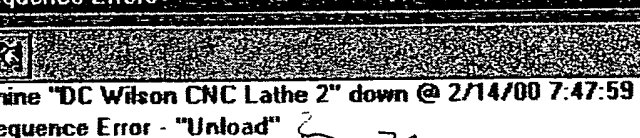


Fig. 4

[illegible]

**FIG. 5**





Sequence Errors

Machine "DC Wilson CNC Lathe 2" down @ 2/14/00 7:47:59 AM

Sequence Error - "Unload" 74

Abnormal Input(s) 76

1. - "Unload Feedback"
2. - "Gage Feedback"

F16.9

**Historical Cycles**

☒ Reference  
☐ Historic

Ref. Mode  
 Copy Ref.

Cycle Start	Cycle #
2/15/00 1:41:25 PM	29
2/15/00 1:41:51 PM	30
2/15/00 1:42:17 PM	31
2/15/00 1:42:43 PM	32
2/15/00 1:43:09 PM	33
2/15/00 1:43:35 PM	34
2/15/00 1:44:01 PM	35
2/15/00 1:44:27 PM	36
2/15/00 1:44:53 PM	37
2/15/00 1:45:19 PM	38
2/15/00 1:45:33 PM	39
2/15/00 1:46:00 PM	40
2/15/00 1:46:34 PM	41

☒ Auto  
☐ Show Only Error

82

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000530" 930530" 88

Statistical Reference Analysis for Machine Virtual Test Machine 2

Save as Reference Profile

Reference Name Reference 1 all

Delete

Cancel

Signals

- M2\_IN\_CYCLE
- M2\_CORES\_IN
- M2\_DIE\_CLOSE
- M2\_SLOW\_SHOT
- M2\_FAST\_SHOT
- M2\_DWELL
- M2\_DIE\_OPEN
- M2\_CORES\_OUT
- M2\_EJECT\_PART
- M2\_END\_CYCLE
- M2\_STOP

Cycle Start	Cycle #	Initial State	Cycle Time (s)	Trans(1)	Trans(2)
8/21/00 9:16:24 AM	46	Off	24.019	(+1.572	(-4.116
8/21/00 9:16:49 AM	47	Off	23.760	(+1.673	(-4.397
8/21/00 9:17:12 AM	48	Off	22.464	(+1.603	(-4.207
8/21/00 9:17:35 AM	49	Off	23.328	(+1.772	(-4.516
8/21/00 9:17:58 AM	50	Off	22.982	(+1.573	(-4.206
8/21/00 9:18:21 AM	51	Off	23.587	(+1.493	(-3.996
8/21/00 9:18:45 AM	52	Off	23.328	(+1.573	(-4.106
8/21/00 9:19:08 AM	53	Off	22.464	(+1.883	(-4.727
8/21/00 9:19:30 AM	54	Off	22.550	(+1.803	(-4.527
8/21/00 9:19:53 AM	55	Off	22.205	(+1.562	(-4.106
8/21/00 9:20:15 AM	56	Off	23.501	(+1.782	(-4.606
8/21/00 9:20:39 AM	57	Off	23.069	(+1.493	(-4.116
8/21/00 9:21:02 AM	58	Off	21.514	(+1.462	(-3.985
8/21/00 9:21:23 AM	59	Off	23.328	(+1.562	(-4.186
8/21/00 9:21:47 AM	60	Off	23.846	(+1.703	(-4.316
Average			23.139	(+1.636	(-4.273
Range				0.421	0.742
Std Deviation				0.114	0.206
Probability				100.0%	100.0%

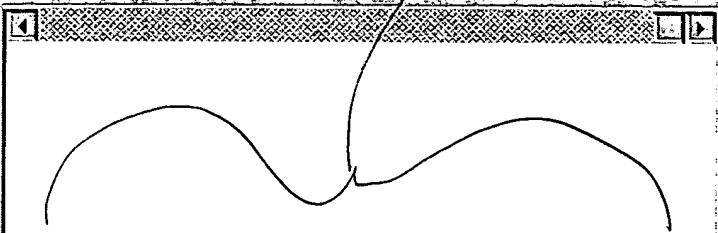


FIG. 11

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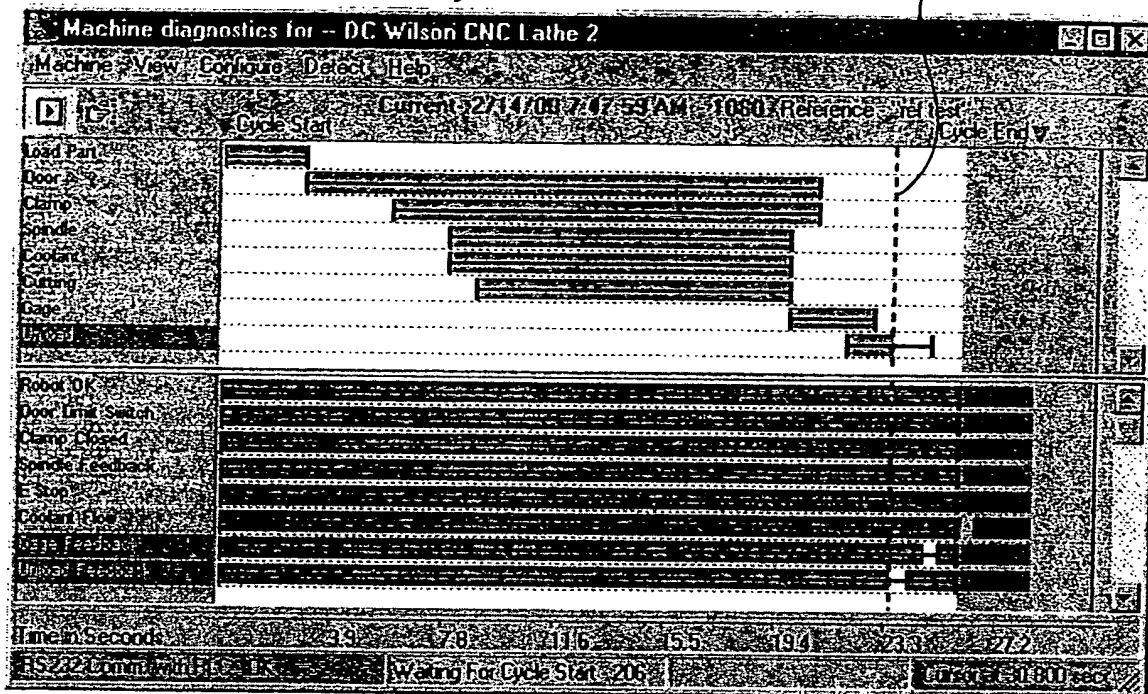


FIG. 13

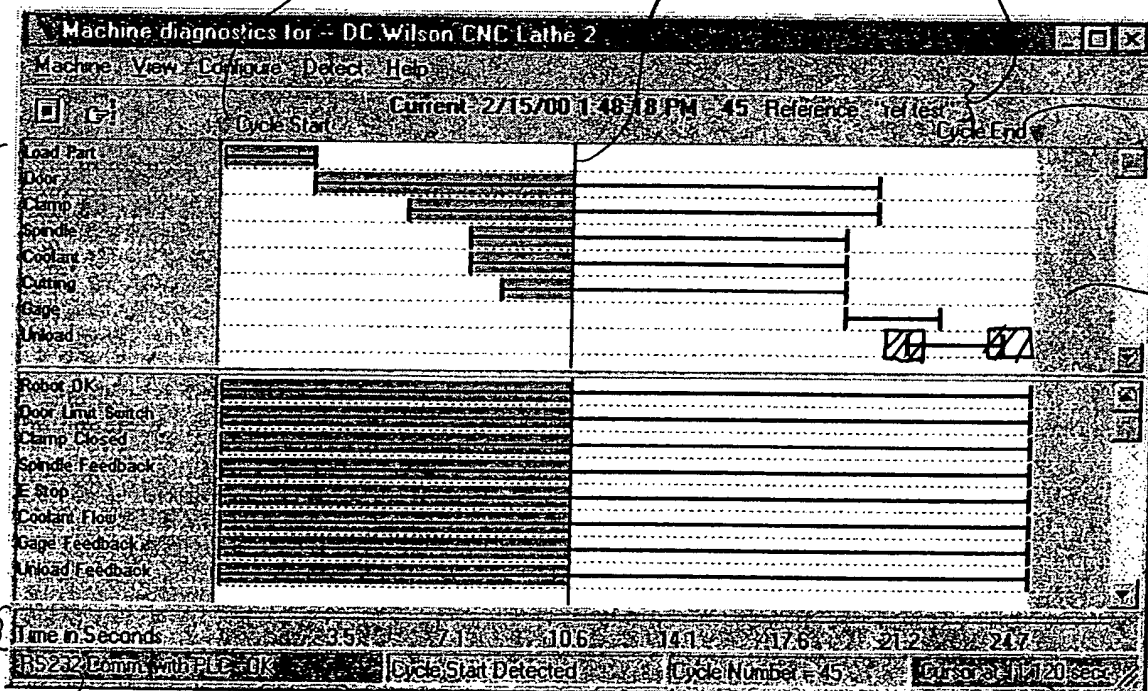


FIG. 12

000000" 92305900





000000" 32305960

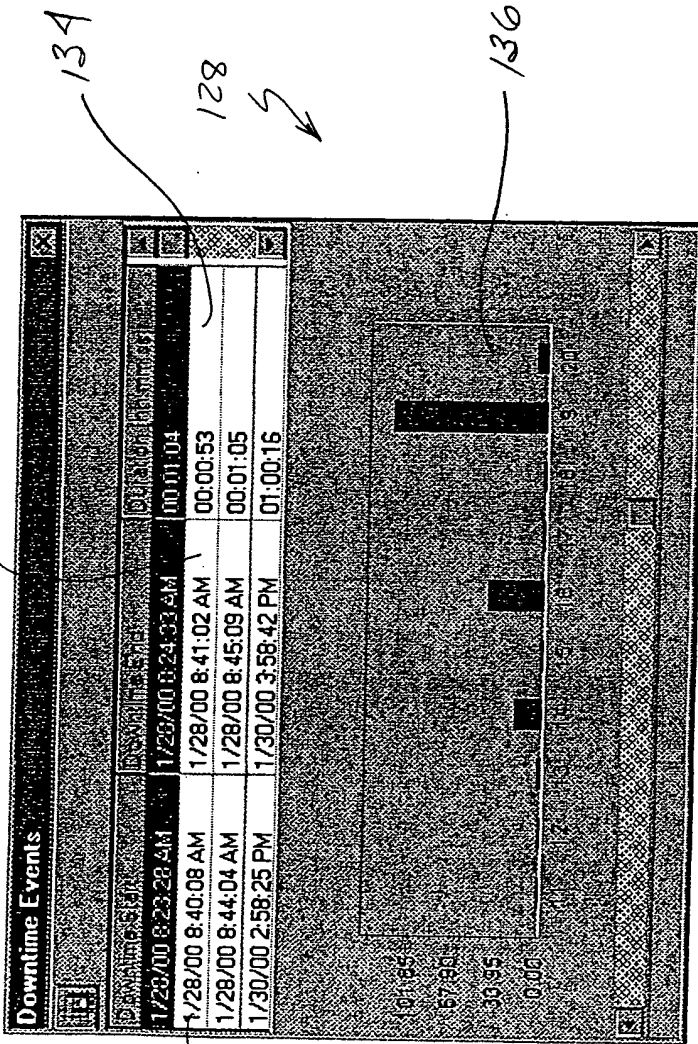


FIG. 16



000000 52505960

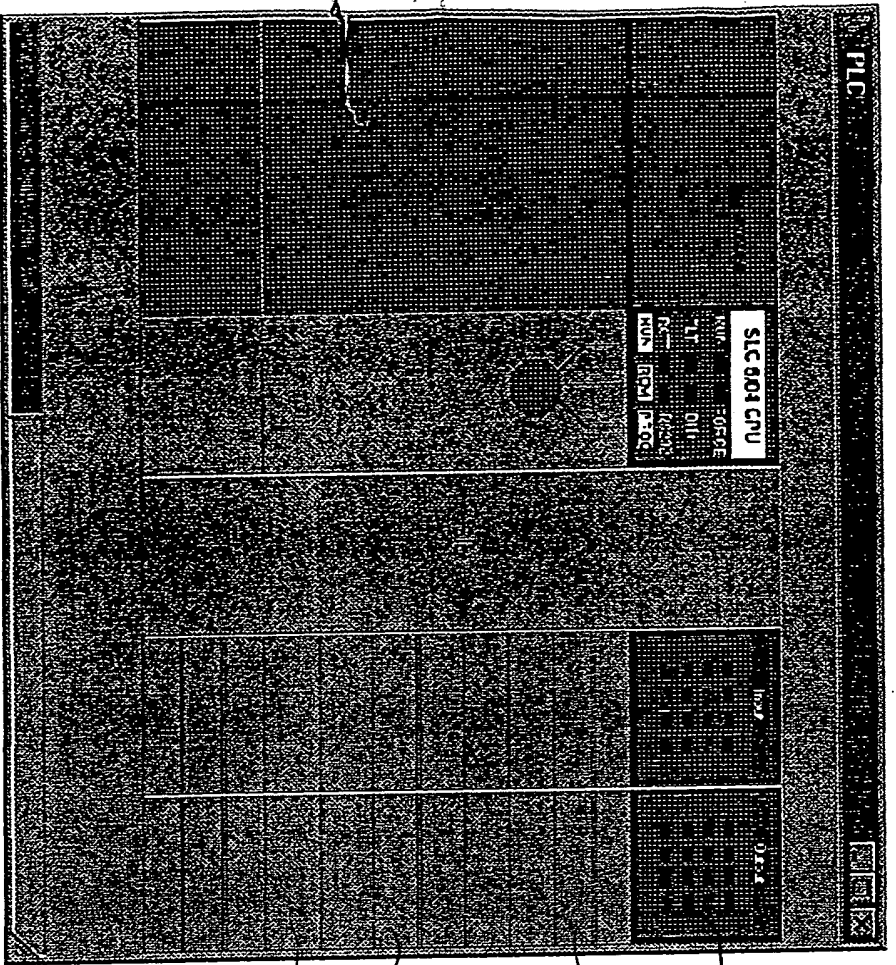


FIG. 18